## **CLAIMS**

## What is claimed is:

1. A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:

a scanning mirror;

a beam structure having one end connected to a plurality of locations on the scanning mirror;

a plurality of rotational comb teeth connected to the beam structure; and

a spring having one end connected to the beam structure.

- 2. The device of claim 1, wherein the spring has another end connected to an anchor bonded to a stationary surface.
- 3. The device of claim 1, wherein the spring has another end connected to a stationary surface.
- 4. The device of claim 1, further comprising:

a plurality of stationary comb teeth, wherein the stationary comb teeth and the rotational comb teeth are interdigitated.

5. The device of claim 1, further comprising:

a plurality of springs each having one end connected to the beam structure along a rotational axis of the scanning mirror.

- 6. The device of claim 5, wherein the plurality of springs each has another end connected to a corresponding anchor bonded to a corresponding stationary surface.
- 7. The device of claim 5, wherein the plurality of spring each has another end connected to a stationary surface.

- 8. A micro-electro-mechanical system (MEMS) scanning mirror device, comprising:
  - a scanning mirror;
  - a beam structure having one end connected to the scanning mirror;
  - a plurality of rotational comb teeth connected to the beam structure; and
  - a plurality of springs each having one end connected to the beam structure along a rotational axis of the scanning mirror.
- 9. The device of claim 8, wherein the plurality of springs each has another end connected to a corresponding anchor bonded to a corresponding stationary surface.
- 10. The device of claim 8, wherein the plurality of springs each has another end connected to a stationary surface.
- 11. The device of claim 8, further comprising:
  - a plurality of stationary comb teeth, wherein the stationary comb teeth and the rotational comb teeth are interdigitated.
- 12. The device of claim 8, wherein the one end of the beam structure is connected to a plurality of locations on the scanning mirror.